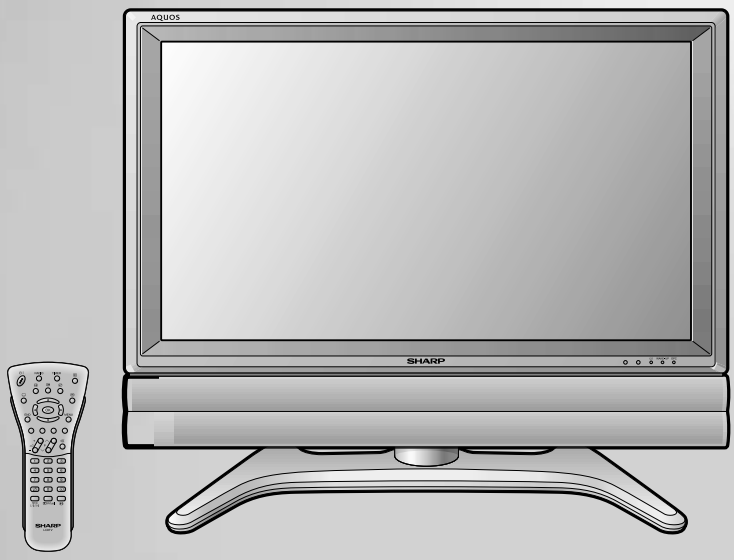
SHARP

LC-26GA6E
LC-32GA6E
LC-37GA6E

LCD COLOUR TELEVISION
LCD-FARBFERNSEHGERÄT
TÉLÉVISION COULEUR À ÉCRAN À CRISTAUX LIQUIDES (LCD)
TELEVISORE A COLORI LCD
LCD-KLEURENTELEVISIE
TELEVISIÓN EN COLOR LCD

OPERATION MANUAL
BEDIENUNGSANLEITUNG
MODE D'EMPLOI
MANUALE DI ISTRUZIONI
GEBRUIKSAANWIJZING
MANUAL DE MANEJO

AQUOS



VIRTUAL DOLBY SURROUND

HDMI™ HIGH-DEFINITION MULTIMEDIA INTERFACE

HD ready

ENGLISH
DEUTSCH
FRANÇAIS
ITALIANO
NEDERLANDS
ESPAÑOL

This apparatus complies with the requirements of Council Directives 89/336/EEC and 73/23/EEC as amended by Council Directive 93/68/EEC.

Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Änderung 93/68/EWG.

Ce matériel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE modifiées par la directive 93/68/CEE.

Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/EEG.

Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillæg nr. 93/68/EEC.

Quest' apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC.

Αυτή η συσκευή συμμορφώνεται με τις απαιτήσεις των οδηγιών του Συμβουλίου 89/336/ΕΟΚ και 73/23/ΕΟΚ όπως τροποποιήθηκαν από την οδηγία του Συμβουλίου 93/68/ΕΟΚ.

Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.

Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.

Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som kompletteras av 93/68/EEC.

Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.

Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.

Bu cihaz Konsey Direktifi 93/68/EEC tarafindan düzeltilen 89/336/EEC ve 73/23/EEC Konsey Direktiflerinin gerekliliklerine uygundur.

Tento přístroj je v souladu s požadavky směrnic rady 89/336/EEC a 73/23/EEC, tak jak byly upraveny směrnicí rady 93/68/EEC.

See seade on vastavuses Nõukogu Direktiivis nr 89/336/EEC ja 73/23/EEC esitatud nõuetega, vastavalt Nõukogu Direktiivis nr 93/68/EEC esitatud parandustele

Ez a készülék megfelel a Tanács által kiadott, 89/336/EGK és 73/23/EGK Irányelveknek és az utóbbit módosító 93/68/EGK Irányelvnek

Ši ierice atbilst tehniskam prasibam pec 89/336/EEC un 73/23/EEC direktivam papildinats ar direktivu 93/68/EEC.

Šis prietaisas atitinka ES Tarybos direktyvu 89/336/EEC ir 73/23/EEC patikslintos direktyvos 93/68/EEC reikalavimus.

To urządzenie spełnia wymagania dyrektyw 89/336/EEC i 73/23/EEC wraz z poprawkami dyrektywy 93/68/EEC.

Tento prístroj je v súlade s požiadavkami smerníc rady 89/336/EEC a 73/23/EEC tak ako boli upravené smernicou rady 93/68/EEC.

Ta aparat je v skladu z zahtevami Direktiv Sveta 89/336/EEC in 73/23/EEC kot je navedeno v dopolnilu k Direktivi Sveta 93/68/EEC.

SPECIAL NOTE FOR USERS IN THE U.K.

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 13A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked ♆ or ASTA and of the same rating as above, which is also indicated on the pin face of the plug, must be used.
Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.
In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut off the mains plug and fit an appropriate type.

DANGER:
The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.
Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet, as a serious electric shock may occur.
To fit an appropriate plug to the mains lead, follow the instructions below:

IMPORTANT:
The wires in the mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this product may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
- The wire which is coloured blue must be connected to the plug terminal which is marked N or coloured black.
- The wire which is coloured brown must be connected to the plug terminal which is marked L or coloured red.

Ensure that neither the brown nor the blue wire is connected to the earth terminal in your three-pin plug.
Before replacing the plug cover make sure that:
- If the new fitted plug contains a fuse, its value is the same as that removed from the cut-off plug.
- The cord grip is clamped over the sheath of the mains lead, and not simply over the lead wires.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

OPERATION MANUAL ENGLISH

- The illustrations and on-screen displays in this operation manual are for explanation purposes and may vary slightly from the actual operations.
- The examples used throughout this manual are based on the LC-32GA6E model.

Contents

Contents **1**
Dear SHARP customer **2**
Important Safety Precautions **2**
Supplied accessories **2**
Preparation **3**
Setting the TV 3
Inserting the batteries 4
Using the remote control unit 4
Cautions regarding the remote control unit 4
Part names **5**
Remote control unit 5
TV (Front view) 6
TV (Rear view) 6
Using external equipment **7**
EXT 1 7
EXT 2 7
EXT 3 7
EXT 4 and 5 7
PC INPUT 7
Watching TV **8**
Turning on the power 8
Turning off the power 8
Standby/On 8
Initial auto installation 8
Menu operations **9**
Menu operation buttons 9
On-Screen Display 9
PICTURE menu 10
Using PICTURE menu screen 10
LEVELS 10
PICTURE MODE 10
Picture adjustments (CONTRAST/BRIGHTNESS/ COLOUR/SHARPNESS/BACKLIGHT/OPC) 10
ADVANCED 10
I/P SETUP 10
MOV. COMP. (MOVEMENT COMPENSATION) 10
COMB FILTER 10
NOISE RED. (NOISE REDUCTION) 10
DYN. CONTRAST (DYNAMIC CONTRAST) 10
DYN. GAMMA (DYNAMIC GAMMA) 10
MONOCHROME 11
COLOUR TEMP. (COLOUR TEMPERATURE) 11
NTSC HUE 11
SOUND menu 11
Using SOUND menu screen 11
EFFECTS 11
SOUND EFFECTS 11
LEVELS 11
SPEAKERS 11
VOLUME 11
BALANCE 11
LOUDNESS 11
AUTO VOL. (AUTO VOLUME) 11
DYNAMIC BASS 12
EXTERNAL 12
SCART VOLUME 12
AV VOLUME 12
EQUALIZER 12
STEREO 12
SPEAKERS 12
AV 12
SOUND IDENT. (SOUND IDENTIFICATION) 12
FEATURES menu 12
Using FEATURES menu screen 12
TIMERS 13
DATE 13
TIME 13
ON TIMER (Wake-up timer) 13
OFF TIMER (Sleep timer) 13
RADIO/TV 13
VOL. LIMIT (VOLUME LIMIT) 13
AV-LINK 13
AVL CONTROL (AV-LINK CONTROL) 14
AVL TIMERS (AV-LINK TIMERS) 14
DATE 14
START 14
STOP 14
MODE 14
SPEED 14
DEMO 14
CHILD LOCK 14
LOCK ALL 14
TYPE 14
START 14
STOP 14
LOCK PROGRAM 14
TYPE 15
PROGRAMME 15
START 15
STOP 15
CHANGE PIN 15
CLEAR LOCK 15
SETUP menu 15
Using SETUP menu screen 15
AUTO INSTALLATION 15
MANUAL TUNE 15
TYPE 15
SYSTEM 16
CHANNEL 16
MODE 16
FINE TUNE 16
SCAN 16
EDIT 16
EDIT 16
DELETE 16
SORT 16
GENERAL SETUP 17
OSD LANGUAGE 17
FACTORY SETTINGS 17
TTX CHAR. SET (TELETEXT CHARACTER SET) 17
WSS (Wide Screen Signalling) 17
ROTATION 17
AV SETUP 17
HDMI SETUP 17
DVI SETUP VIA HDMI 17
POWER CONTROL 18
POWER MANAGEMENT 18
NO SIGNAL OFF 18
NO OPERATION OFF 18
Useful adjustment settings and features **18**
PC INPUT mode adjustments 18
PICTURE/SOUND adjustments 18
Image position 18
PC compatibility chart 18
HD mode adjustments 19
FM Radio menu screen 19
Radio Setting 19
Auto Station Search 19
Manual Station Search 19
WIDE MODES 20
Manual selection 20
Auto selection 20
Teletext function 20
Appendix **21**
Troubleshooting 21
IMPORTANT NOTE ON DISENGAGING ADVANCED CHILD LOCK 21
Specifications 22
Corresponding real channel 23
End of life disposal 24

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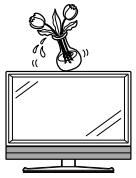
Dear SHARP customer

Thank you for your purchase of the SHARP LCD colour TV product. To ensure safety and many years of trouble-free operation of your product, please read the Important Safety Precautions carefully before using this product.

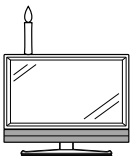
Important Safety Precautions

- Cleaning—Unplug the AC cord from the AC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.
- Water and moisture—Do not use the product near water, such as bathtub, washbasin, kitchen sink, laundry tub, swimming pool and in a wet basement.
- Do not place vases or any other water-filled containers on this product.
  The water may spill onto the product causing fire or electric shock.



- Stand—Do not place the product on an unstable cart, stand, tripod or table. Doing so can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.
- When relocating the product placed on a cart, it must be moved with utmost care. Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.

- Ventilation—The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.
- The LCD panel used in this product is made of glass. Therefore, it can break when the product is dropped or impact applied. If the LCD panel is broken, be careful not to be injured by broken glass.
- Heat sources—Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).
- To prevent fire, never place any type of candle or naked flames on the top or near the TV set.
- To prevent fire or shock hazard, do not place the AC cord under the TV set or other heavy items.
- Do not display a still picture for a long time, as this could cause an afterimage to remain.
- There is power consumption always if main plug is connected.



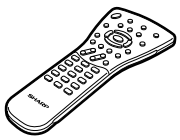
The LCD panel is a very high technology product, giving you fine picture details.
Due to the very large number of pixels, occasionally a few non-active pixels may appear on the screen as a fixed point of blue, green or red.
This is within product specifications and does not constitute a fault.

Precautions when transporting the TV

When transporting the TV, never carry it by holding onto the speaker. Be sure to always carry the TV by two people holding it with two hands—one hand on each side of the display.

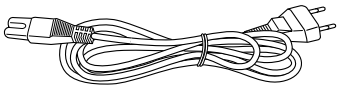
Supplied accessories

Remote control unit (×1)



Page 4 and 5

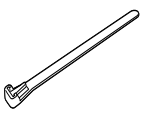
AC cord (×1)



Product shape varies in some countries.

Page 3

Cable tie (×1)



Page 3

Cable clamp (×1)

Page 3

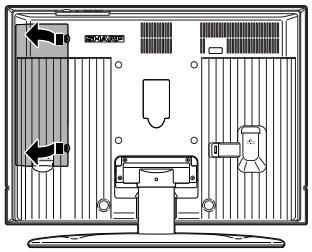
- "AAA" size battery (×2) ..... Page 4
- Operation manual

Preparation

Setting the TV

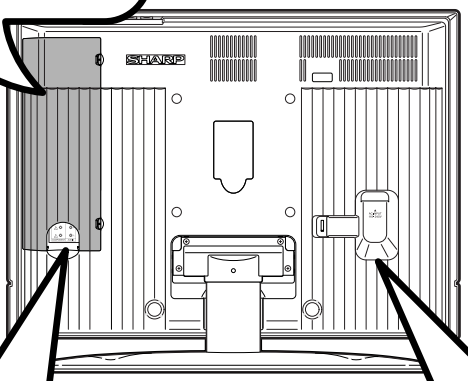
NOTE
- The illustration shows the LC-32GA6E.

Removing the terminal cover



Press the two hooks and slide the cover toward the left of TV to remove.

TV (Rear view)

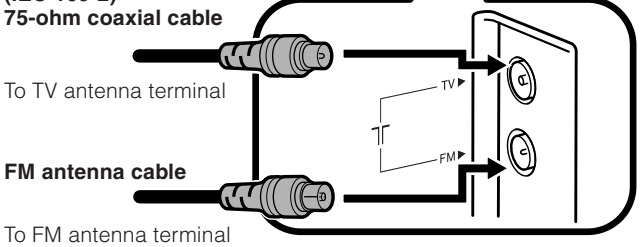


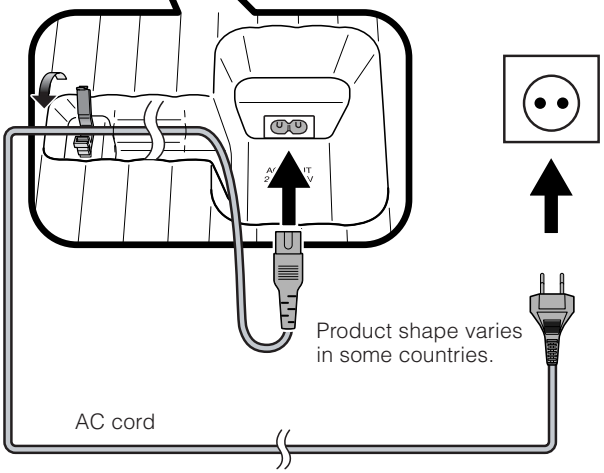
Standard DIN45325 plug (IEC 169-2) 75-ohm coaxial cable

To TV antenna terminal

FM antenna cable

To FM antenna terminal

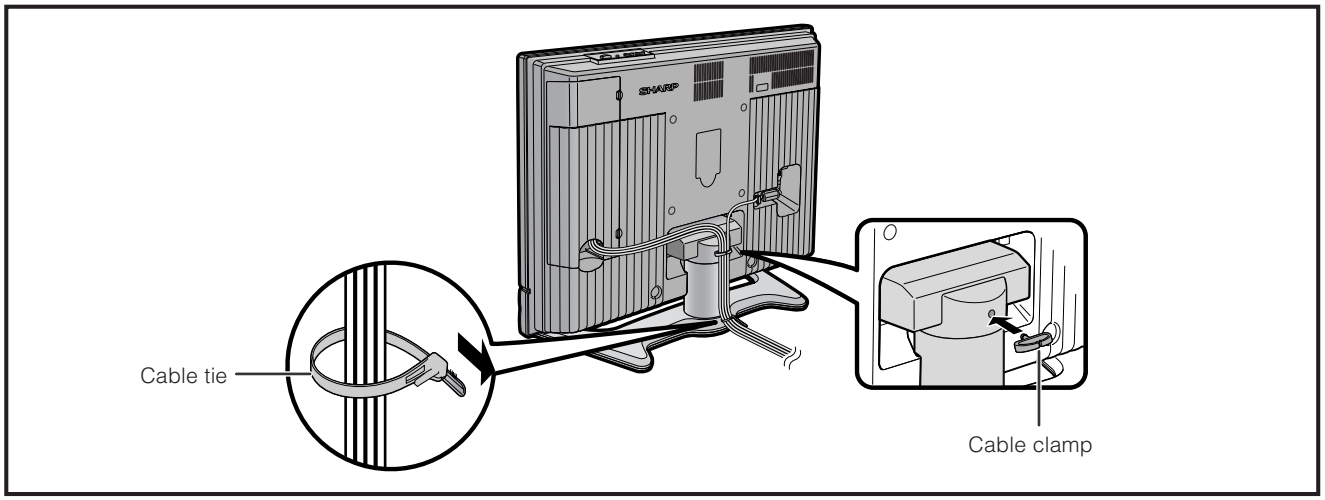




Product shape varies in some countries.

AC cord

Bundling the cables



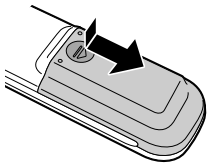
Inserting the batteries

Before using the TV for the first time, insert two “AAA” size batteries (supplied). When the batteries become depleted and the remote control unit fails to operate, replace the batteries with new “AAA” size batteries.

1 Press and slide the battery cover to open it.

2 Insert two supplied “AAA” size batteries.
- Place batteries with their terminals corresponding to the (+) and (−) indications in the battery compartment.

3 Close the battery cover.

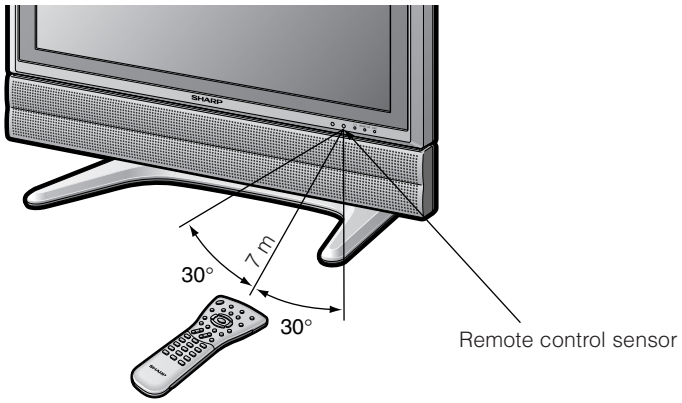


CAUTION

Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they have worn out. Chemicals that leak from batteries can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not be using the remote control unit for an extended period of time, remove the batteries from it.

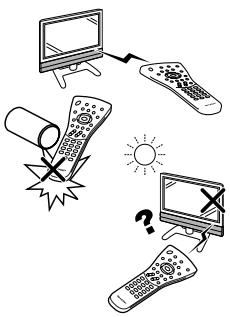
Using the remote control unit

Use the remote control unit by pointing it towards the remote control sensor. Objects between the remote control unit and the sensor may prevent proper operation.



Cautions regarding the remote control unit

- Do not expose the remote control unit to shock.
  In addition, do not expose the remote control unit to liquids, and do not place in an area with high humidity.
- Do not install or place the remote control unit under direct sunlight. The heat may cause deformation of the unit.
- The remote control unit may not work properly if the remote control sensor of the TV is under direct sunlight or strong lighting. In such case, change the angle of the lighting or TV, or operate the remote control unit closer to the remote control sensor.



Part names

Remote control unit

RADIO
Displays the RADIO menu screen and make adjustments for FM RADIO mode. (See page 19.)

(Hold)
Temporarily holds the current Teletext page. (See page 20.)

(Standby/On)
Turns on and off the power or enters Standby mode. (See page 8.)

(Subtitle)
Displays the Teletext Subtitle directly. (See page 20.)

OK
Go to the next step or execute the item.

Select a desired level or item.

END
Exit the menu item.

Red
Displays the "PICTURE LEVELS" menu screen directly. (See page 10.)

Green
Displays the "SOUND SPEAKER LEVELS" menu screen directly. (See page 11.)

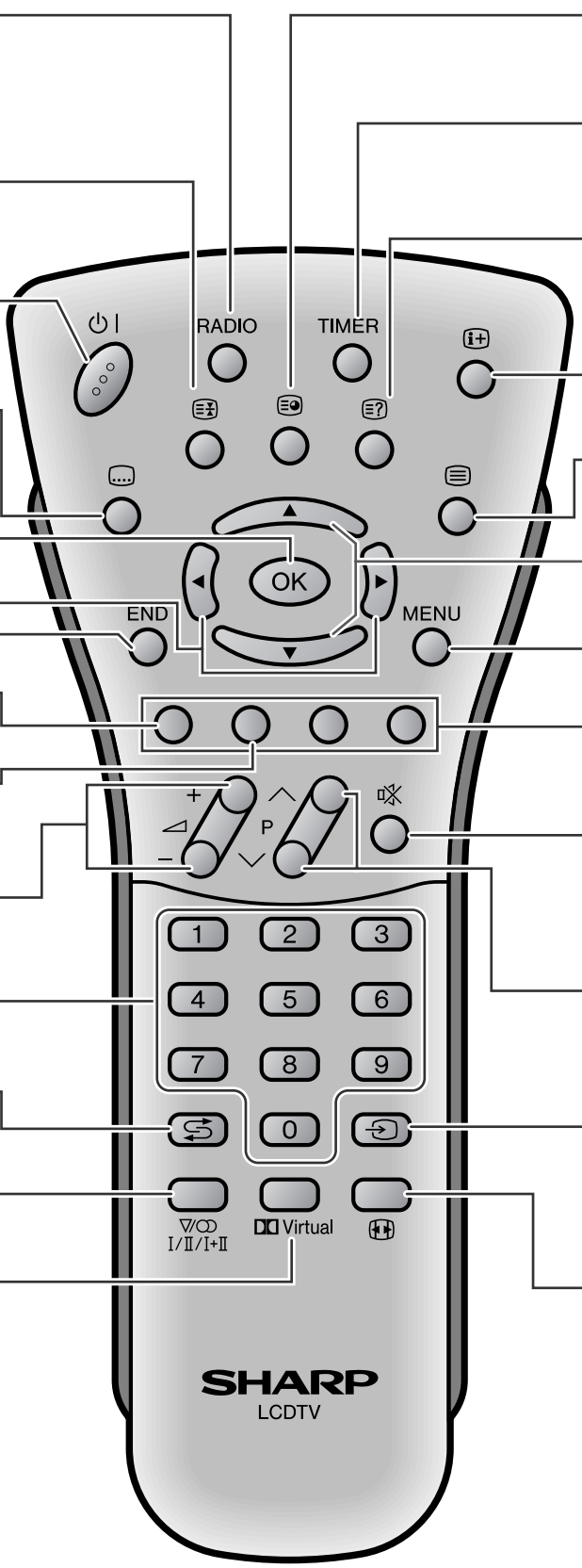
(+/−) (Volume)
(+) Increases the volume.
(−) Decreases the volume.

Programme select
Changes programmes or sets the page in Teletext mode.

(Flashback)
Returns to the previous programmes or sources.

(Sound Mode Selector)
Displays the "SOUND STEREO" menu screen directly. (See pages 11 and 12.)

Virtual
Displays the "SOUND EFFECTS" menu screen directly. (See page 11.)



(Clock/Subpage)
Displays time in TV mode. (When available).
Displays the Teletext Subpage in Teletext mode. (See page 20.)

TIMER
Displays the "FEATURE TIMERS" menu screen directly. (See page 13.)

(Reveal)
Displays hidden information such as solutions to riddles and puzzles in Teletext mode. (See page 20.)

(Display/Info)
Displays the programme information.

(Teletext)
Displays the Teletext mode screen. (See page 20.)

Programmes List, Upwards/ Downwards Selection

MENU
Displays the menu. (See page 9.)

Colour (Red/Green/Yellow/Blue)
Select a page in Teletext mode. (See page 20.)

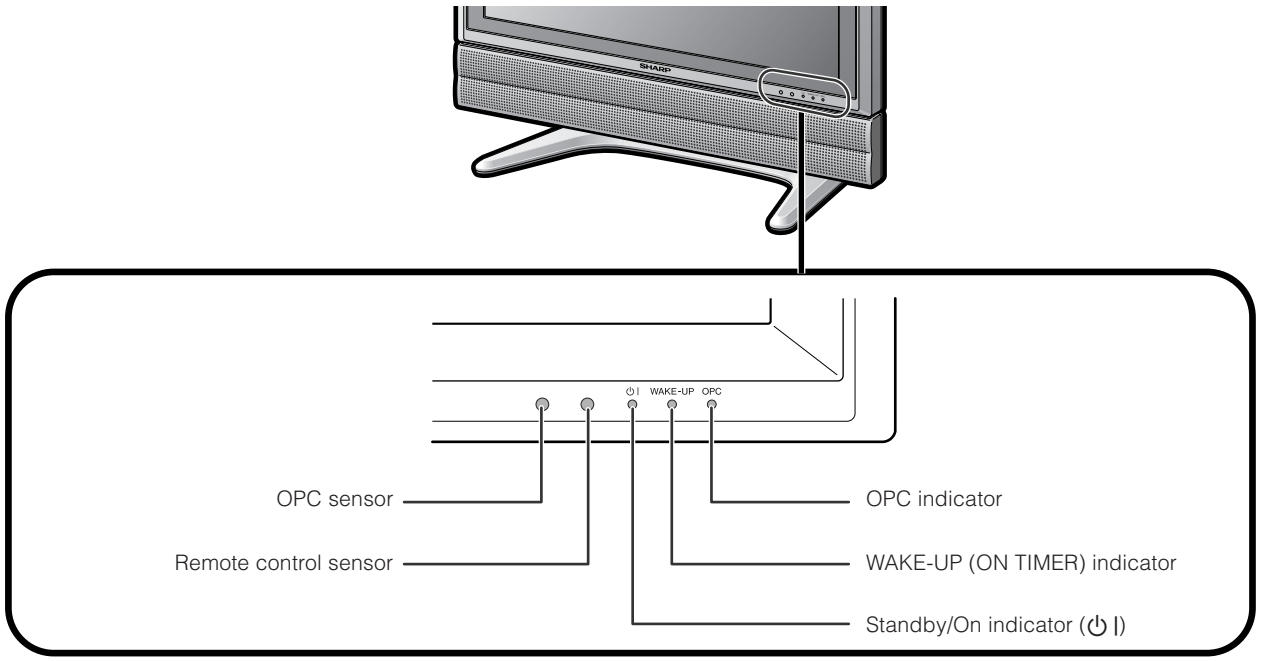
(Mute)
Switches the sound on and off.

P (∧/∨)
∧ Increases programme number.
∨ Decreases programme number.

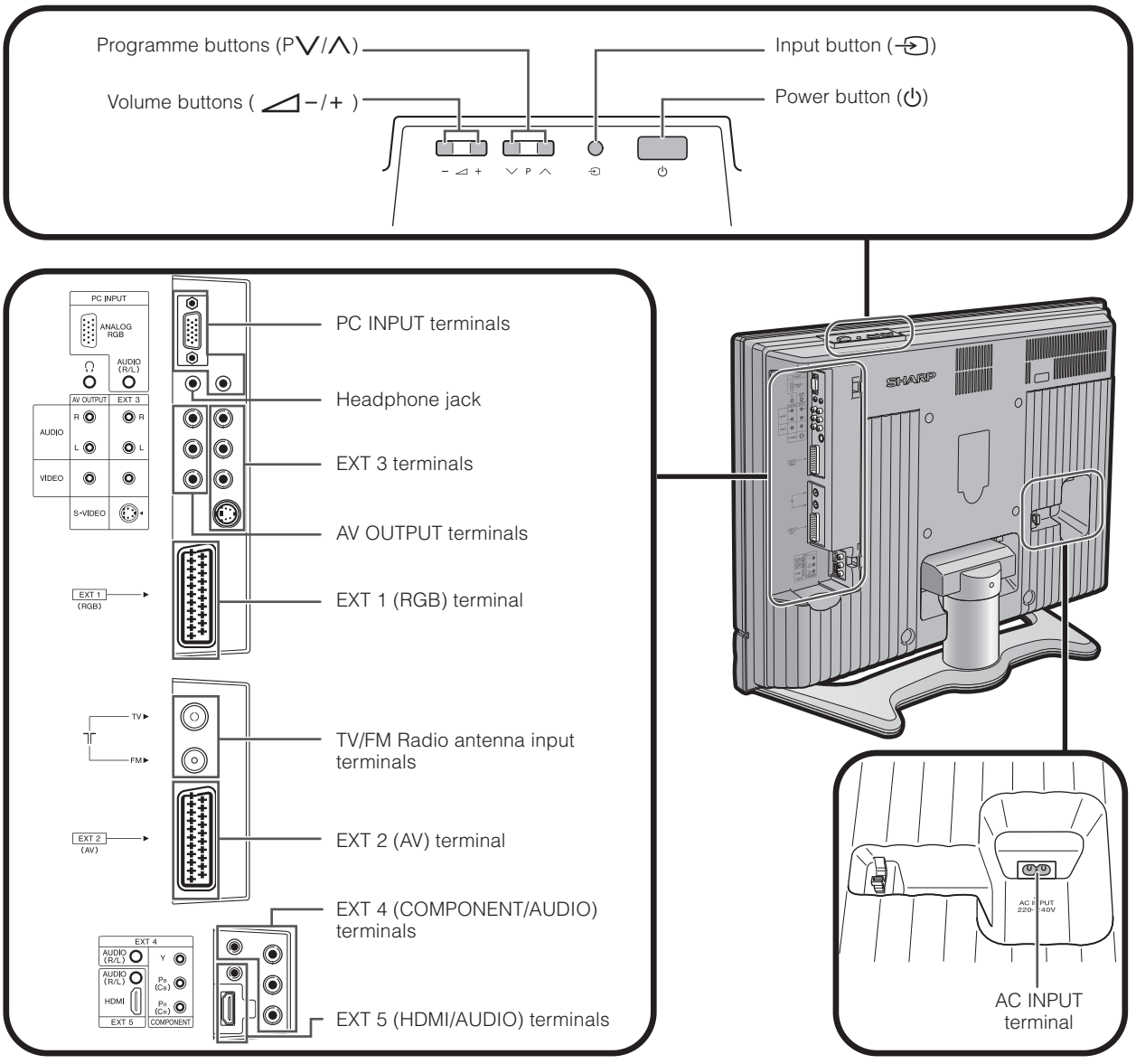
(Input mode)
Displays the "EXT. SOURCES MENU" menu screen. (See page 7.)

(WIDE MODES)
Displays the "WIDE MODES" menu screen directly, to select your desired screen size. (See page 20.)
Sets the area of magnification in Teletext mode. (See page 20.)

TV (Front view)



TV (Rear view)



Using external equipment

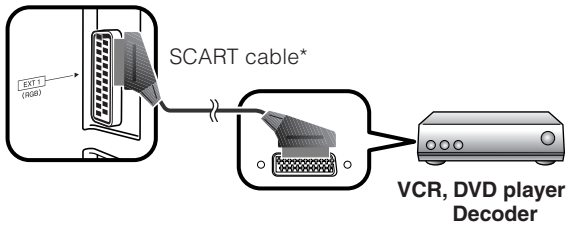
You can connect many types of external equipment to your TV, like a decoder, VCR, DVD player, PC, game console and camcorder. To view or select the input source, see the operations below.

Using ⏎ on the TV: Press ⏎. Each time you press ⏎, the input source will change. TV → EXT1 → EXT2 → EXT3 → EXT4 → EXT5 → PC → RADIO → TV
Using ⏎ on the remote control unit: Press ⏎ to display the "EXT. SOURCES MENU" screen. Press ▲/▼ to select your desired input source, and then press **OK**. TV/EXT1/EXT2/EXT3/EXT4/EXT5/PC INPUT

NOTE
- Before connecting external equipment to your TV, see page 17.
- The cables marked with * are commercial items.

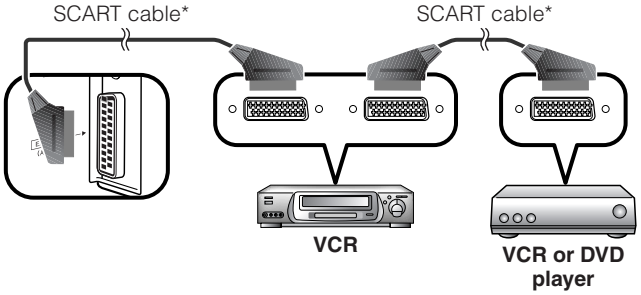
EXT 1

You can use the EXT 1 terminal when connecting a decoder and other audiovisual equipment.



EXT 2

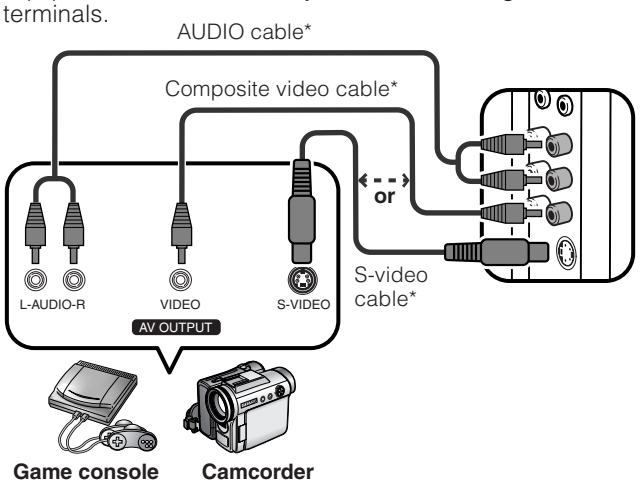
You can use the EXT 2 terminal when connecting a VCR and other audiovisual equipment.



NOTE
- TV-VCR advanced "AV LINK" systems may not be compatible with some external sources.

EXT 3

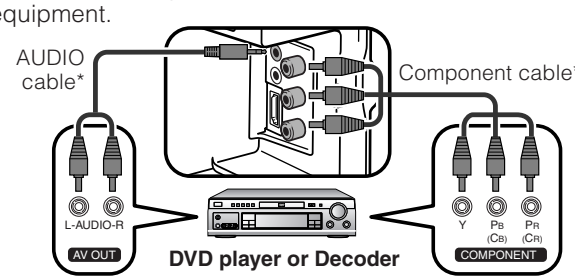
A game console, camcorder and some other audiovisual equipment are conveniently connected using the EXT 3 terminals.



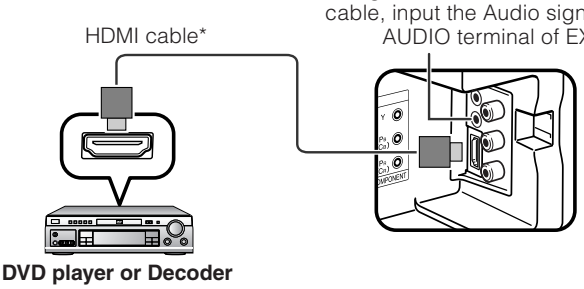
NOTE
- The S-VIDEO terminal has priority over the VIDEO terminals.
- You can also connect the game console to EXT 1 or 2 terminals to enjoy clearer picture.

EXT 4 and 5

You can use the EXT 4 (COMPONENT) or 5 (HDMI) terminals when connecting to a DVD player and other audiovisual equipment.

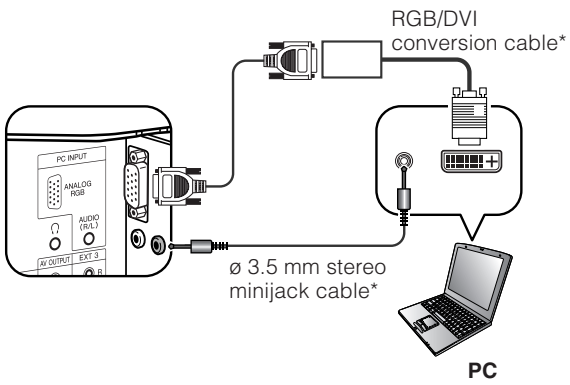


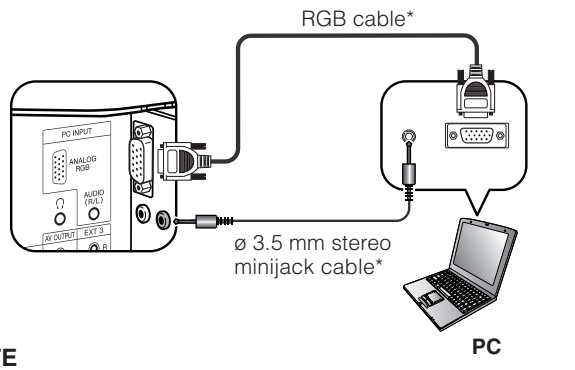
When using an HDMI-DVI conversion cable, input the Audio signal to AUDIO terminal of EXT 5.



PC INPUT

Use the PC INPUT terminals to connect a PC.





NOTE
- The PC INPUT terminals are DDC1/2B-compatible.

Watching TV

Turning on the power

Press ⏻ **(Power)** on the TV.

- The Standby/On indicator on the TV changes from red to green.

Turning off the power

To turn off the power, press ⏻ **(Power)** on the TV again.

- The Standby/On indicator on the TV gradually turns off.
- When the TV is turned off by ⏻ **(Power)**, you cannot turn on the power by pressing ⏻ **|** on the remote control unit.

NOTE

- If you are not going to use this TV for a long period of time, be sure to remove the AC cord from the power outlet.
- Weak electric power is still consumed even when ⏻ **(Power)** is turned off.

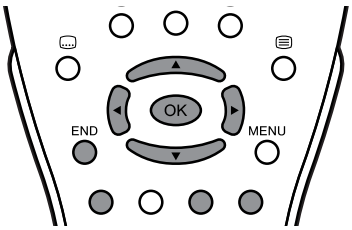
Standby/On

Press ⏻ **|** on the remote control unit.

- The TV enters Standby mode and the image on the screen disappears.
- The Standby/On indicator on the TV changes from green to red.

Initial auto installation

When the TV powers on for the first time after purchase, the initial auto installation is invoked. You can set language, country and automatically search for and store all the receivable TV and FM radio channels.



NOTE

- The initial auto installation function only once. If the Initial auto installation is not completed, (ex: When menu screen disappeared by not operating for a few minutes, when the power shut down, etc.), try “AUTO INSTALLATION” from the “SETUP” menu. (See page 15.)

1 Setting the on-screen display language

① Press ▲/▼ to select “SELECT LANGUAGE”.

② Press ◄/► to select the desired language listed on the screen.

2 Setting the country or area

① Press ▲/▼ to select “SELECT COUNTRY”.

② Press ◄/► to select your country or area listed on the screen.

NOTE

- The TV set is ready to preset automatically all local channels for you.
- If you do not intend to use your TV set with a VCR then proceed to step 3.
- If the TV set is being used with a VCR, turn on the VCR and play back a pre-recorded tape. The signal from the RF terminal of your VCR is assigned to a TV programme.

3 Press **OK** to start Auto Channel Preset.

- **Automatic Channel Sorting System (ACSS):** The TV searches for frequencies, memorises the channels found, and sorts them (according to technical criteria).
  For TV channels: from Pr-01 to a maximum of 99 programmes.
  For FM RADIO channels: from Pr-01 to a maximum of 99 programmes.
- This tuning process may take several minutes to perform.
- **You do not need to do anything during the Auto Channel Preset.**

4 When the Auto Channel Preset is completed, the “EDIT” menu screen displays.

- In this menu you can change the order of the channels, delete channels, and change or give the channels an eight-letter name.

Available options in EDIT Menu screen

Button	Mode	Description
◄/►	TV or RADIO	To select the programmes of “TV” or “RADIO”.
▲/▼	SELECT	To select a programme from the list.
Red	EDIT	Use this mode for giving a name made up of eight-letter to the channels or for changing the one which appears on some channels.
Yellow	DELETE	Use this mode for cancelling channels which are badly tuned or repeated.
Blue	SORT	Use this mode for sorting the channels into the desired programme (Pr).
END	EXIT	To return to the normal screen.

- For more details about “EDIT” menu screen, see page 16.

⬇

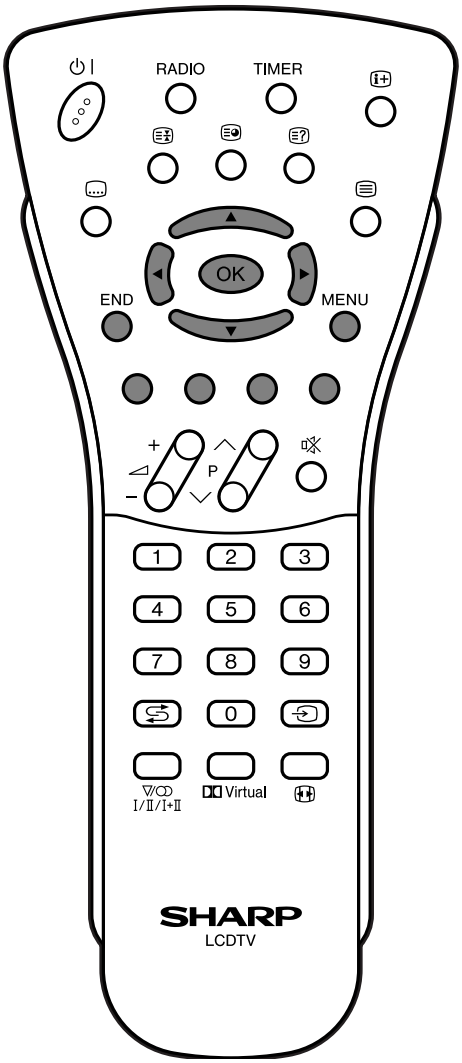
Watching TV

The setup menu disappears and you can watch the programme.

Menu operations

Menu operation buttons

Use the following buttons on the remote control unit to operate the menu.



MENU: Press to open the menu screen.

▲/▼/◀/▶: Press to select a desired item on the screen or adjust a selected item.

OK: Press to go to the next step or execute the item.

END: Press to exit the menu item.

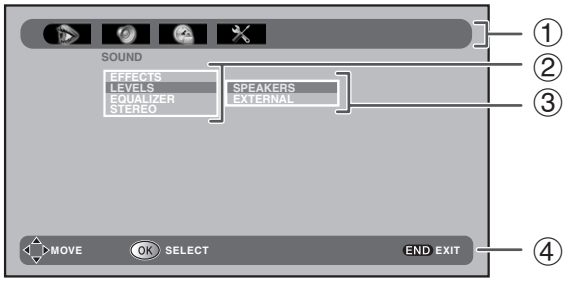
Colour buttons: Press to go to the menu item screen and select a desired item on the menu.

On-Screen Display

Menu

Press **MENU** to display On-Screen Display.

Example:



① Top Menu
Press ◀/▶ to select your desired Top Menu.

Example: Top Menu

Top Menu name

: PICTURE (See page 10.)
: SOUND (See page 11.)
: FEATURES (See page 12.)
: SETUP (See page 15.)

② Sub Menu
Press **OK** to move to next screen (Menu item).

- Press ▲/▼ to select your desired Sub Menu.
- The selected item is displayed in yellow letters with red background. Press **OK** to move to next screen (More options or Menu item).

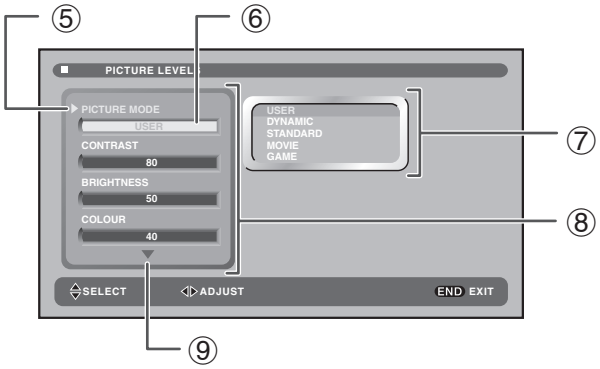
③ More options
When more options appear, press ▲/▼ to select your desired item.

- The selected item is displayed in yellow letters with red background.

Press **OK** to display the next screen.

④ Operation guidance for the remote control
Follow the operation guidance to adjust/set.

Example: Menu item



⑤ Selected menu item.

⑥ Item currently selected.

⑦ Items available to be set.

⑧ The items for LEVELS menu.

- Press ▲/▼ to select your desired items.

⑨ Indication of the next screen.

- Press ▼ to display the next screen.

PICTURE menu

Using PICTURE menu screen

Common Operation

1 Press **MENU** to display the menu screen.

2 Press ◀/▶ to select “PICTURE”.

Selecting an item from PICTURE Group A

① Perform steps 1 and 2 in **Common Operation**.

② Press ▲/▼ to select “LEVELS” or “ADVANCED”, and then press **OK**.

- The “PICTURE LEVELS” menu screen can be displayed directly by pressing **Red**.

③ Press ▲/▼ to select the desired menu item (Example: “PICTURE MODE”, “CONTRAST” etc).

④ Press ◀/▶ to select/adjust.

LEVELS

✔ PICTURE MODE

Menu Operation: PICTURE Group A (top of this page)

Select a predetermined picture level.

Item

USER: Select this mode in order to recover the “PICTURE” level (“CONTRAST”, “BRIGHTNESS”, “COLOUR”, “SHARPNESS” “BACKLIGHT”, and “OPC”) that you had adjusted at the last time. Each time you change one of these adjustments, it is memorized automatically within the option “USER”.
DYNAMIC: This mode has been designed for a clear-cut image emphasising high contrast for sports viewing.
STANDARD: Select this mode if you wish to normalize “PICTURE” levels to default factory settings.
MOVIE: This mode has been designed to be used when watching movies.
GAME: This mode has been designed to be used when watching home video game system.

✔ Picture adjustments (CONTRAST/ BRIGHTNESS/COLOUR/SHARPNESS/BACKLIGHT/ OPC)

Menu Operation: PICTURE Group A (top of this page)

Adjusts the picture to your preference with the following picture settings.

Item	◀ Button	▶ Button
CONTRAST	For less contrast	For more contrast
BRIGHTNESS	For less brightness	For more brightness
COLOUR	For less colour intensity	For more colour intensity
SHARPNESS	For less sharpness	For more sharpness
BACKLIGHT	For screen dims	For screen brightness
OPC	Press ◀/▶ to select ON/OFF	

NOTE

- **OPC:** Select this mode to activate the Intelligent Picture Control. This function allows the automatic adjustment of the screen brightness, according to the ambient light of the room, via OPC (Optical Picture Control).
  When set to “ON”, make sure that no object obstructs the OPC sensor, which could affect its ability to sense surrounding light.

ADVANCED

The “ADVANCED” menu consists of the advanced feature items for the picture adjustments.

NOTE

- “ADVANCED” items cannot be set when the FM radio mode is selected.

✔ I/P SETUP

Menu Operation: PICTURE Group A (left side of this page)

Adjusting the image and input signal can give you a more beautiful picture.

Item

INTERLACE: Use this setting when you cannot get a clear picture with PROGRESSIVE. (Especially suitable for media with special effects like game software.)
PROGRESSIVE: Normally, you should select this setting.

✔ MOV. COMP. (MOVEMENT COMPENSATION)

Menu Operation: PICTURE Group A (left side of this page)

The “MOV. COMP.” smoothes the quick jumps (movements) of images on the screen, in order to avoid artifacts.

✔ COMB FILTER

Menu Operation: PICTURE Group A (left side of this page)

Set to “ON” to reduce the colour interference in picture with fine details and the picture gets sharper.

NOTE

- When selecting RGB signal through EXT 1 terminal, “COMB FILTER” is set to “OFF” automatically, for the best picture quality.

✔ NOISE RED. (NOISE REDUCTION)

Menu Operation: PICTURE Group A (left side of this page)

Select your desired item from the three items of “OFF”, “HIGH”, or “LOW” to reduce the noise when receiving a weak signal. “NOISE RED.” provides high quality images with minimal dot crawl and cross colour noise.

✔ DYN. CONTRAST (DYNAMIC CONTRAST)

Menu Operation: PICTURE Group A (left side of this page)

Set to “ON” to increase the contrast on the soft parts of the picture.

✔ DYN. GAMMA (DYNAMIC GAMMA)

Menu Operation: PICTURE Group A (left side of this page)

Set to “ON” to increase the brightness on the dark parts of the picture.

✔ MONOCHROME

Menu Operation: PICTURE Group A (page 10)

For viewing a video in monochrome.

✔ COLOUR TEMP. (COLOUR TEMPERATURE)

Menu Operation: PICTURE Group A (page 10)

Adjusts the colour temperature to give the best white image. Press ◀/▶ to add bluish/reddish tone to white images.

✔ NTSC HUE

Menu Operation: PICTURE Group A (page 10)

Adjusts the skin colour during NTSC signal reception. Press ◀/▶ to make skin tones become purplish/greenish.

SOUND menu

Using SOUND menu screen

Common Operation

1 Press **MENU** to display the menu screen.

2 Press ◀/▶ to select “SOUND”.

Selecting an item from SOUND Group A

① Perform steps 1 and 2 in **Common Operation**.

② Press ▲/▼ to select “EFFECTS”, and then press **OK**.
- The “SOUND EFFECTS” menu screen can be displayed directly by pressing **Virtual**.

③ Press ◀/▶ to select/adjust.

Selecting an item from SOUND Group B

① Perform steps 1 and 2 in **Common Operation**.

② Press ▲/▼ to select “LEVELS”, and then press **OK**.

③ Press ▲/▼ to select “SPEAKERS“ or “EXTERNAL”, and then press **OK**.
- The “SOUND SPEAKER LEVELS” menu screen can be displayed directly by pressing **Green**.

④ Press ▲/▼ to select the desired menu item (Example: “VOLUME”, “BALANCE” etc).

⑤ Press ◀/▶ to select/adjust.

Selecting an item from SOUND Group C

① Perform steps 1 and 2 in **Common Operation**.

② Press ▲/▼ to select “EQUALIZER”, and then press **OK**.

③ **EQUALIZER MODE:** Press **Red** to select a pre-defined equalization mode: “PERSONAL”, “CLASSIC”, “JAZZ”, “POP”, “CONCERT” or “STADIUM”.

④ **To change the EQUALIZER MODE “PERSONAL”:**
Press ◀/▶ to select 100Hz, 330Hz, 1KHz, 3.3KHz or 10KHz.
Press ▲/▼ to adjust the item to your desired position.

Selecting an item from SOUND Group D

① Perform steps 1 and 2 in **Common Operation**.

② Press ▲/▼ to select “STEREO”, and then press **OK**.
- The “SOUND STEREO” menu screen can be displayed directly by pressing I/II/I+II (Sound Mode Selector).

③ Press ▲/▼ to select the desired menu item (Example: “SPEAKERS”, “AV” or “SOUND IDENT.”).

④ Press ◀/▶ to select/adjust.

EFFECTS

Select a predetermined sound effect.

✔ SOUND EFFECTS

Menu Operation: SOUND Group A (left side of this page)

Item

BYPASS: Normal sound without sound effect.
DOLBY VIRTUAL: Divide the centre signal equally between the left and right speakers to achieve a phantom centre image. Process the mono surround channels (or left surround, right surround) signal via a virtualised before sending it to the left, right speakers, creating a virtualised image around the listener.
PANORAMA: This sound reproduction mode mixes all four surround decoder outputs to the left and right output channel without any loss of information and creates a surround like effect with only two speakers.

LEVELS

Adjusts the sound quality to suit your preference.

✔ SPEAKERS

Menu Operation: SOUND Group B (left side of this page)

■ VOLUME

Adjusts the volume. Press ◀/▶ to decrease/increase volume.

■ BALANCE

Adjusts the balance. Press ◀/▶ to increase volume of the left/right.

■ LOUDNESS

This setting increases the volume of low and high frequency signals according to the current volume setting.

Item

OFF: Deactivates the “LOUDNESS”.
NORMAL: Keeping the amplitude of the 1KHz reference frequency constant.
SUPERBASS: Keeping the amplitude of the 2KHz reference frequency constant.

■ AUTO VOL. (AUTO VOLUME)

Different sound sources, fairly often do not have the same volume level, for example the changing from movie to the advertisements. The Automatic Volume Correction (AUTO VOL.) solves this problem and equalizes the volume levels.

■ DYNAMIC BASS

"DYNAMIC BASS" system extends the frequency range to create different bass effects.

Item

OFF: Deactivates the "DYNAMIC BASS".
MEDIUM: Increases the volume of low frequency signals moderately.
STRONG: Increases the volume of low frequency signals exceptionally.

✔ EXTERNAL

Menu Operation: SOUND Group B (page 11)

Adjusts the sound level output to the external connectors to suit your preference.

■ SCART VOLUME

Adjusts the sound level output to the Euro-SCART connector (EXT1). Press ◀/▶ to decrease/increase volume output.

■ AV VOLUME

Adjusts the sound level output to the external connectors (EXT2 and AV OUTPUT). Press ◀/▶ to decrease/increase volume output.

EQUALIZER

Menu Operation: SOUND Group C (page 11)

This enables the selection of the pre-defined equalization modes.

Item

PERSONAL: User configurable mode. Five equalizer bands are available.
CLASSIC: Predefined mode, designed to listen classic music
JAZZ: Predefined mode, designed to listen jazz music
POP: Predefined mode, designed to listen pop music
CONCERT: Predefined mode, designed to listen concert music
STADIUM: Predefined mode, designed to watch sports

STEREO

This enables the selection of the reception mode when receiving a "STEREO" or "DUAL" (bilingual) signal. To let you enjoy "STEREO" and "DUAL" broadcastings, this TV receives stereo, bilingual, and monaural broadcasts.

NOTE

- **About sound mode:** In the "STEREO" menu you can select a sound mode to the SPEAKERS and HEADPHONES, and another to the audio output of the external connectors (EXT 2 and AV OUTPUT).
- Depending on the sound transmission the sound reproduction can be chosen in the "STEREO" menu as indicated below.

Signal	Selectable item
STEREO	STEREO, MONO
BILINGUAL	DUAL CHANNEL A, B, AB, MONO
MONO NICAM	MONO NICAM, MONO (FM)
MONO (FM)	MONO (FM)

Exception: When you are watching the TV through the external sources, the "STEREO" menu and $\frac{\nabla/CD}{I/II/I+II}$ (Sound Mode Selector) are not operative. These operate only in TV mode.

✔ SPEAKERS

Menu Operation: SOUND Group D (page 11)

Change sound mode. Select your desired mode to your preference depending on the type of broadcast.

✔ AV

Menu Operation: SOUND Group D (page 11)

Change sound mode in the audio output of the external connectors. Select your desired mode to your preference depending on the type of broadcast.

✔ SOUND IDENT. (SOUND IDENTIFICATION)

Menu Operation: SOUND Group D (page 11)

Activates "ON" or deactivates "OFF" the automatic identification of audio system of the current programme.

Item

ON: The TV automatically identifies the received audio system MONO (FM), STEREO or DUAL signal.
OFF: Disqualifies the automatic identification of the audio system and forces the sound into MONO (FM).
This mode can be convenient when the level of the signal received is extremely weak.

NOTE

- This function is independent for every programme.

FEATURES menu

Using FEATURES menu screen

Common Operation

1 Press **MENU** to display the menu screen.
2 Press ◀/▶ to select "FEATURES".

Selecting an item from FEATURES Group A

① Perform steps 1 and 2 in **Common Operation**.
② Press ▲/▼ to select "TIMERS", and then press **OK**.
- The "FEATURE TIMERS" menu screen can be displayed directly by pressing **TIMER**.

③ Press ▲/▼ to select the desired menu item (Example: "DATE", "TIME", "ON TIMER", "OFF TIMER", "RADIO/TV" or "VOL. LIMIT").
④ Press ◀/▶ to select/adjust or input **0–9**.

Selecting an item from FEATURES Group B

① Perform steps 1 and 2 in **Common Operation**.
② Press ▲/▼ to select "AV-LINK", and then press **OK**.
③ Press ▲/▼ to select "AVL CONTROL", and then press **OK**.
④ Press **OK**, **Blue** or **Red** to select the desired setting.

Selecting an item from FEATURES Group C

① Select the programme you wish to record at the specified time, using **Programme select (0–9)**, **Programmes List (▲/▼)** or **P (⋀/⋁)**.
② Perform steps 1 and 2 in **Common Operation**.
③ Press ▲/▼ to select “AV-LINK”, and then press **OK**.
④ Press ▲/▼ to select “AVL TIMERS”, and then press **OK**.
⑤ Press ▲/▼ to select the desired menu item (Example: “DATE”, “START” etc).
⑥ Press ◀/▶ to select/adjust or input **0–9**.

Selecting an item from FEATURES Group D

① Perform steps 1 and 2 in **Common Operation**.
② Press ▲/▼ to select “CHILD LOCK”, and then press **OK**.
③ Press ▲/▼ to select “LOCK ALL”, “LOCK PROGRAM”, and then press **OK**.
④ Input the desired four-digit “PIN” with **0–9**, and then press **OK**.
⑤ Press ▲/▼ to select the desired menu item (Example: “TYPE”, “START” etc).
⑥ Press ◀/▶ to select/adjust or input **0–9**.

Selecting an item from FEATURES Group E

① Perform steps 1 and 2 in **Common Operation**.
② Press ▲/▼ to select “CHILD LOCK”, and then press **OK**.
③ Press ▲/▼ to select “CHANGE PIN”, and then press **OK**.
④ Input your PIN with **0–9**, and then press **OK**.
⑤ Input new PIN with **0–9**, and then press **OK**.

Selecting an item from FEATURES Group F

① Perform steps 1 and 2 in **Common Operation**.
② Press ▲/▼ to select “CHILD LOCK”, and then press **OK**.
③ Press ▲/▼ to select “CLEAR LOCK”, and then press **OK** .
④ Input your PIN with **0–9**, and then press **OK**.

TIMERS

You can set “DATE”, “TIME” (Clock), “ON TIMER” (Wake-up timer) and “OFF TIMER” (Sleep timer) to automatically turn on and off the TV or RADIO at the specified time.
You can also set “ON TIMER” to automatically turn on at the specified sound volume.
The Timer functions that turn power on at the specified time do not work unless the clock is adjusted. Be sure to adjust the “DATE” and the “TIME” (Clock) first.

NOTE
- “DATE” and “TIME” are automatically set/corrected via the Teletext broadcast when available.
- When you set “ON TIMER”, the WAKE-UP indicator lights up red while in the Standby mode.
- “ON TIMER” and “OFF TIMER” will not be activated if the power is turned off with ⏻ (**Power**) on the TV.
- In the event of a power cut, disconnection from the plug or TV switch, all the data on the “ON TIMER” and “OFF TIMER” will be cancelled.
- As a safety precaution, in the case of nobody being home when the TV or RADIO switches on automatically, the TV will return to Standby mode after 120 minutes; if it is to continue to run, any button on the remote control functions should be pressed.
- The “OFF TIMER” data will be cancelled if you turn off the TV by ⏻ | (Standby/On) on the remote control unit.
- You can check the timer settings by pressing i+ (Display/ Info).

✔ DATE
✔ TIME

Menu Operation: FEATURES Group A (page 12)

Current date and current time are necessary to set in order to be able to run the Timer functions.

Automatic adjustment: If a programme with Teletext is being received, the “DATE” and “TIME” can be adjusted automatically with that signal’s clock.
Press ☰ to synchronize “DATE” and “TIME”.
- If a signal via satellite is being received, or if correct date or time, cannot be obtained, “DATE” and “TIME” will have to be adjusted manually.

Manual adjustment: Press the **Programme select (0–9)** to adjust “DATE” (DD/MM/YY (day/month/year)) and “TIME” (HH:MM (hour:minute)) manually.

✔ ON TIMER (Wake-up timer)

Menu Operation: FEATURES Group A (page 12)

The “ON TIMER” turns on the TV or RADIO automatically anytime of the day.
When “ON TIMER” has been set, press ⏻ | on the remote control unit to put the TV into Standby mode.
When the preset time is reached, the TV or RADIO turns “ON”.
HH:MM (hour:minute)

IMPORTANT
- In order to use the “ON TIMER” (Wake-up timer), be sure to deactivate all child protection beforehand, otherwise the “ON TIMER” may not operate correctly. You may have to input your PIN in the corresponding menu.

✔ OFF TIMER (Sleep timer)

Menu Operation: FEATURES Group A (page 12)

The “OFF TIMER” switches the TV to Standby mode automatically, after the set length of time has passed.
Input selectable item OFF, 30, 60, 90, or 120 (minutes)

✔ RADIO/TV

Menu Operation: FEATURES Group A (page 12)

For the “ON TIMER” (Wake-up timer), you can select the mode (TV or RADIO) to automatically turn on.

✔ VOL. LIMIT (VOLUME LIMIT)

Menu Operation: FEATURES Group A (page 12)

For the “ON TIMER” (Wake-up timer), you can adjust the sound volume when TV or RADIO automatically turns on.

AV-LINK

This feature can only be used with NexTView, Smart Link, Easy Link and Megalogic compatible VCR.
This “Intelligent” communication system allows controlling some VCR functions from the TV and vice versa.
For example, it is possible to programme the VCR timer recording from the TV or record the signal currently being displayed on the TV regardless of the signal source.
In this case, the VCR and the TV must be connected through the 21-pin Audio/Video connector especially available for this function (EXT2 terminal in this TV) using the fully-wired SCART cable.
Refer to your VCR operation manual for further information.

✔ AVL CONTROL (AV-LINK CONTROL)

Menu Operation: FEATURES Group B (page 12)

Use this menu to "PRESET DOWNLOAD" and to "RECORD WHAT YOU SEE".

Item	Button	Description
PRESET DOWNLOAD	**OK**	Automatically transfers the channel preset information from the tuner on the TV to the one on the connected VCR via the EXT2 terminal.
START RECORDING	**Blue**	While the VCR is in Standby mode, it automatically turns on and starts recording the image from the TV (RECORD WHAT YOU SEE).
STOP RECORDING	**Red**	The TV indicates the VCR that must stop the recording.

✔ AVL TIMERS (AV-LINK TIMERS)

Menu Operation: FEATURES Group C (page 13)

In this menu you can set a late start and stop time for a recording.

NOTE
- After input all functions (DATE, START, STOP, MODE and SPEED), press **OK** to transfer the data to the external VCR.

■ DATE

Set the recording date. DD/MM/YY (day/month/year)

■ START

Set the time of recording beginning. HH:MM (hour:minute)

■ STOP

Set the time of recording end. HH:MM (hour:minute)

■ MODE

If you want to make additional recordings at the same time each day, from Monday to Friday or weekly, select "UNIQUE", "MON-FRI" "DAILY" or "WEEKLY".

NOTE
- "MODE" (UNIQUE/MON-FRI/DAILY/WEEKLY) can be changed only if your VCR has these functions available.

■ SPEED

Use this setting to change recording speed between "SP" Standard-Play and "LP" Long-Play.
Standard-Play gives the best picture quality. Long-Play provides the longest recording time.

NOTE
- "SPEED" (SP/LP) can be changed only if your VCR has these functions available.

DEMO

The "DEMO" (demonstration) function allows you to see all the menus implemented in this TV.
Press **END** to stop the DEMO mode.

CHILD LOCK

Use the "CHILD LOCK" function to block access to the television by means of a 4-digits code (PIN).
The protection can apply to the television itself "LOCK ALL" or to specific programmes "LOCK PROGRAM". With the "CHILD LOCK" function, you can also programme a time period during which the TV or the programmes will be protected. (Your children cannot select the programme, which you locked.)

IMPORTANT
- Refer to page 21 for "IMPORTANT NOTE ON DISENGAGING ADVANCED CHILD LOCK".

NOTE
- If the protection is timed, the blocking of the TV or programmes will only occur during the time period programmed.
- In order for the timed protection to function correctly, the internal clock must be set at the right time. To check the time setting, see **DATE** and **TIME** on page 13.

✔ LOCK ALL

Menu Operation: FEATURES Group D (page 13)

Set the CHILD LOCK to the whole TV.

NOTE
- **Access to protected modes:** When the TV is protected in "LOCK ALL" way, it will be blocked when switched on and the instruction "INPUT YOUR PIN" will appear on the screen.
  In order to view your TV, you must press **0–9** of your Secret Number "PIN" and **OK**.
  If the "PIN" is not entered, only ⏻ **(Power)** on the TV and ⏻ **|** (Standby/On) on the remote control unit will operate.

■ TYPE

Set the desired period of time to lock the TV for.

Item

NONE: Cancels the protection.
ALWAYS: The access to the TV will be protected always.
TIMER: The access to the TV will be protected during the programmed period. If you have set "TIMER", it is indispensable to set "START" and "STOP" period.

■ START

Enter the hour and minutes to set the beginning of protection.
HH:MM (hour:minute)

■ STOP

Enter the hour and minutes to set the end of protection.
HH:MM (hour:minute)

✔ LOCK PROGRAM

Menu Operation: FEATURES Group D (page 13)

Set the CHILD LOCK for individual programmes.

NOTE
- **Access to protected modes:** When one or several programmes are protected, the TV will block any attempt to gain access to them and the instruction "INPUT YOUR PIN" will appear on the screen.
  In order to view these programmes you must press **0–9** of your Secret Number "PIN" and **OK**.
  If the "PIN" is not entered, only **P (∧/∨)** for changing programmes, ⏻ **(Power)** on the TV and ⏻ **|** (Standby/On) on the remote control unit will operate.

■ TYPE

Set the desired period of time to lock the TV for.

Item

NONE: Cancels the protection from the selected programme.
ALWAYS: The access to the selected programme will be protected always.
TIMER: The access to the selected programme will be protected during the programmed period. If you have set "TIMER", it is indispensable to set "START" and "STOP" period.
AUTO(VPS): Activates the automatic protection. The selected programme will only be blocked when it receives the "VPS" signal*.

* When the programme that is being shown is not suitable for children, some broadcasting stations send this "VPS" signal, for activating the automatic protection.

■ PROGRAMME

Select the programme number you want to protect.

■ START
■ STOP

Refer to "START" and "STOP" in "LOCK ALL". (See page 14.)

✔ CHANGE PIN

Menu Operation: FEATURES Group E (page 13)

Set a new PIN.

✔ CLEAR LOCK

Menu Operation: FEATURES Group F (page 13)

This option enables you to erase all the adjustments made to the CHILD LOCK function except the PIN.

SETUP menu

Using SETUP menu screen

Common Operation

1 Press **MENU** to display the menu screen.
2 Press ◀/▶ to select "SETUP".

Selecting an item from SETUP Group A

① Perform steps 1 and 2 in **Common Operation**.
② Press ▲/▼ to select "AUTO INSTALLATION", and then press **OK**.
③ Press ◀/▶ to select the desired language for the on-screen display.
④ Press ▼ to select "SELECT COUNTRY", and then press ◀/▶ to select your country.
⑤ Press **OK** to start Auto Channel Preset.
- **You do not need to do anything during the Auto Channel Preset.**

⑥ When the Auto Channel Preset is completed, the "EDIT" menu screen displays.

Selecting an item from SETUP Group B

① Select the programme number you want to preset with **Programme select (0-9)** or **Programme List (▲/▼)**.
② Perform steps 1 and 2 in **Common Operation**.
③ Press ▲/▼ to select, "MANUAL TUNE", and then press **OK**.
④ Press ▲/▼ to select the desired menu item (Example: "TYPE", "SYSTEM" etc).
⑤ Press ◀/▶ or **Programme select (0-9)** to select/adjust.

Selecting an item from SETUP Group C

① Perform steps 1 and 2 in **Common Operation**.
② Press ▲/▼ to select "EDIT", "GENERAL SETUP", "AV SETUP", "HDMI SETUP", "DVI SETUP VIA HDMI" or "POWER CONTROL" and then press **OK**.
③ Press ▲/▼ to select the desired menu item.
④ Press ◀/▶ to select/adjust.

AUTO INSTALLATION

Menu Operation: SETUP Group A (left side of this page)

In this menu you can perform the Initial Auto Installation again. Using this routine, you can select the On-Screen Display "SELECT LANGUAGE", set the "SELECT COUNTRY", and automatically search for and store all the receivable TV and FM radio channels.

When the automatic search has been completed, the "EDIT" menu (Stored Programmes) will appear on screen and you can change the order of the channels, delete channels, and change or give the channels an eight-letter name. (See page 8.)

MANUAL TUNE

Perform the procedure to search for and store new TV programmes after the first installation routine.
(e.g. when a new TV broadcasting station being installed on your geographic area).

✔ TYPE

Menu Operation: SETUP Group B (top of this page)

Select your desired item to your preference from the two items of "AERIAL" or "CABLE".

✔ SYSTEM

Menu Operation: SETUP Group B (page 15)

For more information, see the table “Corresponding real channel” on page 23.

Band	System	Real Channel Number
VHF	L/L’	CH-02 — CH-10
	B/G	CH-02 — CH-20
	I	CH-01 — CH-09
	D/K	CH-02 — CH-12
UHF	B/G, D/K, I, L/L’	CH-21 — CH-69
CATV	L/L’	CC-01 — CC-74
	B/G	CC-01 — CC-55
		CH-75 — CH-79
	I	CC-01 — CC-68
	D/K	CC-01 — CC-41

✔ CHANNEL

Menu Operation: SETUP Group B (page 15)

For more information, see the table “Corresponding real channel” on page 23.

NOTE
- Receivable channels depend on TV norm (Band, System, etc.), installation site, and range.

✔ MODE

Menu Operation: SETUP Group B (page 15)

This feature allows you to set the programmes to “TV”, “VCR” or “SKIP” mode.

Item

TV: If the TV signal is weak the image can shake. In this case put it in TV mode.
VCR: In some cases, the upper part of the picture may be distorted when receiving signal from a VCR via RF terminal on the TV set. Selecting this option will help to reduce this effect.
SKIP: Allows you to SKIP programmes you do not want to view when using **P (∧/∨)**. (Use **Programme Select (0–9)** or **Programmes list (▲/▼)** to display these channels)

✔ FINE TUNE

Menu Operation: SETUP Group B (page 15)

When a preset programme channel is not exactly tuned, you can fine-tune the channel in this mode.

NOTE
- Press and hold ◀/▶, until the best tuning position is found, for the best picture and sound, and then press **OK** to memorise.

✔ SCAN

Menu Operation: SETUP Group B (page 15)

Press ◀/▶ to “SCAN” between the existing channel and the previous or next one.
- The tuning sequence will stop when a signal is detected.
- If the signal is not the required channel, press ◀/▶ to continue searching.
- If the signal is the required channel, press **OK** to memorise.

EDIT

Menu Operation: SETUP Group C (page 15)

In this menu you can change the order of the channels, delete channels, and change or give the channels an eight-letter name. (See page 8.)

1 Press ◀/▶ to select “TV” or “RADIO”.

2 Press ▲/▼ to select the channel you want to edit, and then press **OK** to watch/listen to TV/radio.

3 Perform the steps below for each setting.

✔ EDIT

① Press **Red** to display the “EDIT” setting.
② Press ▲/▼ to change the letters, and then press ◀/▶ for changing the position of the cursor.
③ Press **OK** to “STORE” the name.
④ Press **END** to exit.

NOTE
- The selected item is displayed in yellow letters with red background.
- Letters A to Z of the alphabet, symbols, a blank space and the numbers 0 to 9 will appear.

✔ DELETE

① Press **Yellow** to display the “DELETE” setting.
② Press **OK** to delete the channel selected on the list.
③ Press **END** to exit.

NOTE
- When you delete a channel, the channels that follow it on the list will automatically rearrange themselves by moving up one programme (Pr) place, to restore the space of the cancelled channel.

✔ SORT

① Press **Blue** to display the “SORT” setting.
② Press ▲/▼ to move the channel to the required position (Pr).
③ Press **OK** to “STORE”.

NOTE
- When you change of site a channel, the located channels next are rearranged. By such reason, it is advisable to order the channels, being begun by which you wish to place in the first position (Pr1).

GENERAL SETUP

The “GENERAL SETUP” menu consists of the generally used setting items.

✔ OSD LANGUAGE

Menu Operation: SETUP Group C (page 15)

You can select a language from setup menu. Select from among 13 languages: DUTCH, ENGLISH, FINNISH, FRENCH, GERMAN, GREEK, ITALIAN, POLISH, PORTUGUESE, RUSSIAN, SPANISH, SWEDISH, TURKISH.

✔ FACTORY SETTINGS

Menu Operation: SETUP Group C (page 15)

Press **OK** to set the factory presets.

✔ TTX CHAR. SET (TELETEXT CHARACTER SET)

Menu Operation: SETUP Group C (page 15)

You can select a character set from the items listed on the screen.

✔ WSS (Wide Screen Signalling)

Menu Operation: SETUP Group C (page 15)

WSS allows a television to switch automatically among the different screen formats.
Select “ON” to activate the “AUTO” function, located in the “WIDE MODES” menu screen. (See page 20.)

✔ ROTATION

Menu Operation: SETUP Group C (page 15)

You can set the orientation of the picture by this function.

[NORMAL]	[MIRROR]	[ROTATE]	[UPSIDE DOWN]
ABC	ABC	ABC	ABC

AV SETUP

Menu Operation: SETUP Group C (page 15)

In this menu, you can configure the input terminals in concordance with the connected device and the signal type. The EXT 5 terminals is only necessary for setting the “HDMI SETUP” or “DVI SETUP VIA HDMI”.

Input terminal	Type
EXT 1 SOURCE	VCR, DVD, AUTO
EXT 1 SIGNAL	CVBS, Y/C, RGB
EXT 2 SOURCE	VCR, DVD, AUTO
EXT 2 SIGNAL	CVBS, Y/C
EXT 3 SOURCE	VCR, DVD, AUTO
EXT 3 SIGNAL	CVBS, Y/C
EXT 4 SIGNAL	SD, HD, AUTO

SOURCE	Description
VCR	For viewing the signals from a Video Cassette Recorder equipment through the selected input terminal.
DVD	For viewing the signals from a Digital Video/ Versatile Disc equipment through the selected input terminal.
AUTO	For auto detection of the input signal type.

SIGNAL	Description
CVBS	For viewing COMPOSITE VIDEO signal output from video equipment.
Y/C	For viewing S-VIDEO signal output from video equipment.
RGB	For viewing RGB signal output from video equipment.
SD (Standard Definition)	For viewing the signals from video equipment, with output COMPONENT of Standard Definition, connected through the EXT4 terminals.
HD (High Definition)	For viewing the signals from video equipment, with output COMPONENT of High Definition, connected through the EXT4 terminals.
AUTO	For auto detection (HD or SD) of EXT 4 terminals.

HDMI SETUP
DVI SETUP VIA HDMI

Menu Operation: SETUP Group C (page 15)

HDMI (High-Definition Multimedia Interface) terminal selection.

Item	Selectable item	Description
SIGNAL TYPE	RGB/ YCbCr 4:4:4/ YCbCr 4:2:2	Select the signal type from the HDMI terminal.
COLOUR MATRIX	ITU601/ ITU709	Select the internal colour space conversion method when RGB signal is input.
DYNAMIC RANGE	STANDARD/ ENHANCED	Select the signal amplitude range. Usually, select “STANDARD”.
AUTO VIEW*	ENABLE/ DISABLE	Set whether or not to use WIDE MODE based on signal recognition, including HDMI signal.
AUDIO SELECT*	DIGITAL/ ANALOGUE	Select “DIGITAL” for audio signal via the HDMI terminal. Select “ANALOGUE” for audio signal via the AUDIO jack.

NOTE

- Items marked with * are available in HDMI SETUP. All items are available in DVI SETUP VIA HDMI except “AUDIO SELECT”.

POWER CONTROL

Power control setting allows you to save energy.

✔ POWER MANAGEMENT

Menu Operation: SETUP Group C (page 15)

When set to “ON”, the power will automatically shut down (Standby mode) if no image signal is received from the PC in the PC input mode.

✔ NO SIGNAL OFF

Menu Operation: SETUP Group C (page 15)

When set to “ON”, the power will automatically shut down if no signal inputs for 15 minutes.

✔ NO OPERATION OFF

Menu Operation: SETUP Group C (page 15)

When set to “ON”, the power will automatically shut down if no operation for 3 hours.

Useful adjustment settings and features

PC INPUT mode adjustments

PICTURE/SOUND adjustments

After connecting the PC to your TV (see page 7), you can adjust the “PICTURE” and “SOUND” modes to your preference setting with the following steps.

1 Press ⏎ on the remote control unit to display the “EXT. SOURCES MENU” screen.

2 Press ▲/▼ to select “PC INPUT”, and then press **OK** to display PC image on your TV.

3 **For PICTURE setting:**

Press **MENU** or **Red** to display PICTURE setting.

① Press ▲/▼ to select your desired PICTURE item. (CONTRAST/BRIGHTNESS/PHASE/CLOCK)
② Press ◀/▶ to adjust the item to your desired position.
③ Press **END** to exit.

For SOUND setting:

Press **Green** to display SOUND setting.

① Press ▲/▼ to select your desired SOUND item. (VOLUME/BALANCE/LOUDNESS/DYNAMIC BASS/MODE)
② Press ◀/▶ to adjust your desired position or select your desired item.
③ Press **END** to exit.

Image position

After connecting the PC to your TV (see page 7), you can adjust a picture’s horizontal or vertical position with the following steps.

1 Perform steps 1 to 2 in **PICTURE/SOUND adjustments**.

2 Press ▲/▼/◀/▶ to centre the image by moving to H.POS/V.POS.

PC compatibility chart

Resolution		Vertical Frequency 60Hz
VGA	640 × 400	O
	720 × 400	O
	640 × 480	O
WVGA	848 × 480	O
SVGA	800 × 600	O
XGA	1024 × 768	O
WXGA	1280 × 720	O
	1280 × 768	O
SXGA	1280 × 1024	O

HD mode adjustments

You can adjust the “PICTURE” and “SOUND” modes to your preference setting when your TV receives HD signal image.

1 Press ⏎ on the remote control unit to display the “EXT. SOURCES MENU” screen.

2 Press ▲/▼ to select “EXT4” or “EXT5”, and then press **OK**.

3 **For PICTURE setting:**
Press **MENU** or **Red** to display PICTURE setting.

① Press ▲/▼ to select your desired PICTURE item. (CONTRAST/BRIGHTNESS/COLOUR/SHARPNESS/ HDMI SETUP*/DVI SETUP VIA HDMI*)

* HDMI SETUP or DVI SETUP VIA HDMI are available only for EXT 5. Press ▲/▼ to select the desired item, and then press **OK**. (See page 17.)

② Press ◀/▶ to adjust the item to your desired position.

③ Press **END** to exit.

For SOUND setting:
Press **Green** to display SOUND setting.

① Press ▲/▼ to select your desired SOUND item. (VOLUME/BALANCE/LOUDNESS/DYNAMIC BASS/ MODE)

② Press ▲/▼/◀/▶ to adjust your desired position or select your desired item.

③ Press **END** to exit.

FM Radio menu screen

Press the **RADIO** button on the remote control unit to listen to FM radio. To use this function, you must first insert the antenna cable into the corresponding FM antenna connector.

Radio Setting

You can make adjustments for FM radio broadcasting by using **RADIO** on the remote control unit.

1 Press **RADIO** to display the RADIO menu screen.

2 Press ▲/▼ to select the preset radio channel.

3 Press ◀/▶ to adjust the volume.

4 Press **END** to exit the RADIO menu screen.

Auto Station Search

You can search automatically for and store stations.

1 Press **RADIO** to display the RADIO menu screen.

2 Press **OK**, and then “WARNING: RADIO STATIONS WILL BE ERASED” is displayed.

3 Press **OK** to start station search.
- The unit searches for radio programmes and stores and sorts all programmes found (according to set defaults).
- The search may take several minutes.

4 Press **END** to exit the RADIO menu screen.
- To delete, edit or change the order of radio programmes, refer to “EDIT” on page 8 and 16.

Manual Station Search

You can search manually for and store new stations.

1 Press **RADIO** to display the RADIO menu screen.

2 Press **Red** to search manually for a radio programme.
- Input the two digits **(0-9)** to search for a new radio programme, and then “RADIO TUNING” is displayed.

3 Press ▲/▼ to select “FREQUENCY” or “SCAN” to search for stations:

“FREQUENCY” Mode:

① Press ▲/▼ to select “FREQUENCY”.

② Press ◀/▶ to search for a frequency or enter the five digits **(0–9)** of the desired frequency.

③ Press **OK** to store the station.

“SCAN” Mode:

① Press ▲/▼ to select “SCAN”.

② Press ◀/▶ to search for the preceding or subsequent radio programme.
- Search stops as soon as a station is found.
- Press ◀/▶ again until the desired station is found.

③ Press **OK** to store the station.

WIDE MODES

You can select the display size by pressing ⊞ on the remote control.

NOTE
- "WIDE MODES" cannot be set when the FM radio mode is selected.

Manual selection

1 Press ⊞ to display the "WIDE MODES" screen.

2 Press ▲/▼ to select "WIDE MODES", and then press ◀/▶ to select your desired screen size format.

Item

NORMAL 4:3: For 4:3 "standard" pictures. A side bar appears on each side.
CINEMA: For 16:9 broadcast cinema movies, etc. Bars may appear on the top and bottom with some programmes.
ZOOM 14:9: A thin side bar appears on each side, and you may also see bars on the top and bottom with some programmes.
PANORAMA: In this mode the picture is progressively stretched toward each side of the screen.
FULL: For 16:9 squeeze pictures.
AUTO: In this mode the screen size changes automatically.

When you select "CINEMA", "ZOOM 14:9" or "PANORAMA", you can change the vertical "SIZE" and vertical "POSITION".

① Perform steps 1 and 2 on the above to select "CINEMA", "ZOOM 14:9" or "PANORAMA".
② Press ▲/▼ to select "SIZE" or "POSITION". The "SIZE" or "POSITION" indicator displays.
③ Press ◀/▶ to adjust the item to your desired size and position.
④ Press **OK** if you wish to normalize the vertical "SIZE" or vertical "POSITION".
⑤ Press **END** to exit.

Auto selection

Some broadcasting stations send the WSS signal with information of original screen size. When the TV is in "AUTO" mode and receives the WSS signal, it changes the screen size automatically.

1 Press ⊞ to display the "WIDE MODES" screen.

2 Press ▲/▼ to select "WIDE MODES", and then press ◀/▶ to select "AUTO".

When the TV is receiving	The TV selects automatically
WSS code 16:9	CINEMA
WSS code 14:9	ZOOM 14:9
WSS code 4:3	NORMAL 4:3

NOTE
- When you are watching the TV through the external sources (EXT1 or EXT2), and it receives information of 16:9 format (through the audio-video control pin) the TV selects "FULL" automatically.
- In order for the "AUTO" to function correctly, the "WSS" item must be set "ON" in the "GENERAL SETUP" menu. To check it, see page 17.
- When the TV does not receive the WSS code, it changes automatically to "PANORAMA".

Teletext function

What is Teletext?

Teletext broadcasts pages of information and entertainment to specially equipped television sets. Your TV receives Teletext signals broadcast by the TV network, and decodes them into graphical format for viewing. News, weather and sports information, stock exchange prices and programme previews are among the many services available.

1 Select a TV channel or external input source providing the Teletext programme.

2 Press ☰ to display the Teletext on the left screen and normal image on the right screen.

3 Press ☰ again to display the Teletext on the whole screen.

4 Press ☰ again to display the normal image only.

Button Functions

Buttons	Description
P (⋀/⋁)	Increase or decrease the page number.
Colour (Red/ Green/ Yellow/Blue)	Select a group or block of pages displayed in the coloured brackets at the bottom of the screen by pressing the corresponding **Colour (Red/Green/Yellow/Blue)** on the remote control unit.
0–9	Directly select any page from 100 to 899 by using **0–9**.
⊞ **(WIDE MODES)**	Switch the Teletext image to Full, Upper half or Lower half.
(Reveal)	Reveal or hide hidden information such as an answer to a quiz.
(Hold)	Stop updating Teletext pages automatically or release the hold mode.
(Subtitle)	Display the subtitle or exit the subtitle screen. • Subtitle will not be displayed when the service does not contain the subtitle information. • If multiple subtitle pages are broadcast, press again to display the additional subtitle pages.
(Subpage)	Reveal or hide subpages. • **Red:** Move to the previous subpage. • **Green:** Move to the following subpage. • These two buttons are shown on the screen by the signs − and +. • The number "3979" (is not related to subpages) may display in some cases. (This is not a problem)

Appendix

Troubleshooting

Problem	Possible Solution
• No power.	• Is the AC cord disconnected? (See page 3.) • Has the power been turned on? (See page 8.) • Make sure the ⏻ (**Power**) switch of the TV is set to on.
• Unit cannot be operated.	• External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the unit after first turning the power off, or unplugging the AC cord and re-plugging it in after 1 or 2 minutes.
• Remote control unit does not operate.	• Are batteries inserted with polarity (+, −) aligned? (See page 4.) • Are batteries worn out? (Replace with new batteries.) • Are you using it under strong or fluorescent lighting? • Is a fluorescent light illuminated to remote control sensor?
• Strange colour, light colour, or dark, or colour misalignment.	• Adjust the picture levels. (See page 10.) • Is the room too bright? The picture may look dark in a room that is too bright. • Check the system setting. (See page 16.) • Check the input type setting of AV SETUP. (See page 17.)
• Power is suddenly turned off.	• The unit's internal temperature has increased. • Remove any objects blocking vent or clean. • Check the power control setting. (See page 18.)
• No picture.	• Is connection to other components correct? (See page 7.) • Has input type setup of AV SETUP been done correctly after connection? (See page 17.) • Is the correct input selected? (See page 17.) • Is a non-compatible signal being input? (See page 18.) • Is picture adjustment correct? (See pages 10 and 11.) • Is the antenna connected properly? (See page 3.)
• No sound.	• Is the volume too low? (See page 5.) • Make sure that headphones are not connected. (See page 6.) • Make sure the sound is not set to Mute. (See page 5.)

IMPORTANT NOTE ON DISENGAGING ADVANCED CHILD LOCK

We suggest that you remove the following instruction from the operation manual to prevent children from reading it. As this operation manual is multilingual, we also suggest the same with each language. Keep it in a safe space for future reference.
If you have forgotten your personal code number and cannot disengage ADVANCED CHILD LOCK, follow the procedure below.

1. Press **MENU** to display the menu screen.
2. Press ◀/▶ to select “FEATURES”.
3. Press ▲/▼ to select “CHILD LOCK”.
4. Press **OK** to display the “CHILD LOCK” options.
5. Press ▲/▼ to select “CHANGE PIN”.
6. Press **OK**. The “SECRET NUMBER” screen is displayed.
7. Input “3001” with **Programme select (0-9)**.
8. Press **OK** to confirm. The “CHANGE YOUR PIN” menu screen is displayed.
9. Input the new four-digit “PIN” with **Programme select (0-9)**.
10. Press **OK** to confirm the new input.

NOTE

- As a precautionary measure, make a note of your PIN on the back of this operation manual, cut it out and keep it in a safe place that children cannot reach.

Specifications

Item			26″ LCD COLOUR TV, Model: LC-26GA6E	32″ LCD COLOUR TV, Model: LC-32GA6E	37″ LCD COLOUR TV, Model: LC-37GA6E
LCD panel			26″ Advanced Super View & BLACK TFT LCD	32″ Advanced Super View & BLACK TFT LCD	37″ Advanced Super View & BLACK TFT LCD
Number of dots			3,147,264 dots (1366 × 768 × 3 dots)		
Video Colour System			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60		
TV Function	TV-Standard (CCIR)		B/G, I, D/K, L, L'		
	Receiving Channel	VHF/UHF	E2–E69ch, F2–F69ch, I21–I69ch, IR A–IR Jch		
		CATV	Hyper-band, S1–S41ch		
	TV-Tuning System		Auto Preset 99 ch, Auto Label, Auto Sort		
	STEREO/BILINGUAL		NICAM/A2		
FM RADIO Function	Receiving Frequency		87.5-108 MHz		
	Radio-Tuning System		Auto Preset 99 ch, Auto Label, Auto Sort		
Brightness			450 cd/m²		
Backlight life			60,000 hours (at Backlight Standard position)		
Viewing angles			H : 170° V : 170°		
Audio amplifier			10 W × 2		
Speakers			Ø 8 cm 2pcs		
Terminals	Rear	Antenna in	UHF/VHF 75 Ω Din type		
		FM Radio in	Din type		
		EXT 1	SCART (AV input, Y/C input, RGB input, TV output)		
		EXT 2	SCART (AV input/output, Y/C input, AV Link)		
		EXT 3	S-VIDEO (Y/C input), RCA pin (AV input)		
		EXT 4	RCA pin (Component input), Ø 3.5 mm jack (Audio input)		
		EXT 5	HDMI (Digital AV input), Ø 3.5 mm jack (Audio input)		
		PC INPUT	D-sub 15 pin (ANALOG RGB), Ø 3.5 mm jack (Audio input)		
		AV OUTPUT	RCA pin (Variable/Fixed)		
		Headphones	Ø 3.5 mm jack (Audio output)		
OSD language			English/German/French/Italian/Spanish/Dutch/Swedish/Portuguese/Finnish/Turkish/Greek/Russian/Polish		
Power Requirement			AC 220–240 V, 50 Hz		
Power Consumption			110 W (0.8 W Standby) (Method IEC60107)	135 W (0.8 W Standby) (Method IEC60107)	162 W (0.8 W Standby) (Method IEC60107)
Weight			12 kg (Display only), 15 kg (Display with stand)	15.5 kg (Display only), 19.5 kg (Display with stand)	18.5 kg (Display only), 22.5 kg (Display with stand)

- As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

NOTE

- Refer to inside back cover for dimensional drawings.

Cautions regarding use in high and low temperature environments

- When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction.
  Storage temperature: −20°C to +60°C.

Corresponding real channel

Band	System	Station Signal	Real Channel Number	Frequency MHz	Specially available
VHF	L/L'	F-2 — F-4	CH-02 — CH-04	55.75 — 63.74	In France
		F-5 — F-10	CH-05 — CH-10	176.00 — 216.00	
	B/G	E-2 — E-4	CH-02 — CH-04	48.25 — 62.25	
		E-5 — E-12	CH-05 — CH-12	175.25 — 224.25	
		A — H	CH-13 — CH-20	53.75 — 210.25	In Italy
	I	IR-1(A) — IR-9(J)	CH-01 — CH-09	45.75 — 215.25	Ireland/(In United Kingdom)
	D/K	E-2 — E-4	CH-02 — CH-04	48.25 — 62.25	
		E-5 — E-12	CH-05 — CH-12	175.25 — 224.25	
		R-I — R-XII	CH-71 — CH-82	49.75 — 223.25	
UHF	L/L'	F-21 — F-69	CH-21 — CH-69	471.25 — 855.25	In France
	B/G	E-21 — E-69	CH-21 — CH-69	471.25 — 855.25	
	I	I-21 — I-69	CH-21 — CH-69	471.25 — 855.25	In United Kingdom
	D/K	E-21 — E-69	CH-21 — CH-69	471.25 — 855.25	
CATV	L/L'	B — Q	CC-01 — CC-16	116.75 — 296.75	In France
		17 — 60	CC-17 — CC-60	120.00 — 292.00	
		61 — 74	CC-61 — CC-74	303.25 — 459.25	
	B/G	M1/S1 — M10/S10	CC-01 — CC-10	105.25 — 168.25	
		U-1/S-11 — U-10/S-20	CC-11 — CC-20	231.25 — 294.25	
		S-21 — S-41	CC-21 — CC-41	303.25 — 463.25	
		M-1 — M-7	CC-42 — CC-48	115.25 — 163.25	In Holland
		B-1 — B-7	CC-49 — CC-55	231.25 — 279.25	
		S'1/S21 — S'5/S25	CC-75 — CC-79	69.25 — 97.25	In Switzerland
	I	M1/S1 — M10/S10	CC-01 — CC-10	105.25 — 168.25	In United Kingdom
		U-1/S-11 — U-10/S-20	CC-11 — CC-20	231.25 — 294.25	
		S-21 — S-41	CC-21 — CC-41	303.25 — 463.25	
			CC-42 — CC-63	48.00 — 304.00	
			CC-64 — CC-68	69.25 — 98.25	
	D/K	E-1 — E-41	CC-01 — CC-41	105.25 — 463.25	

The Consumer Electronics Industry has initiated a commitment to improve the energy efficiency of TVs. SHARP has signed this commitment and as a result this TV may have a label on the front of the product informing the customer of the energy consumption in various operating modes.

"ON" - The energy consumption (W) of the set when operating with picture and sound (measured according to IEC 62087:2002)

"Standby" The energy consumption (W) of the set when in standby, no picture or sound (measured according to IEC 62087:2002)

An estimated annual energy consumption (kWh) based on a duty cycle of 4 hours "on" and 20 hours in "standby" for 365 days

Note: The IEC 62087:2002 measurement standard sets brightness and sound levels that may not be the same as the TV in "shipped" condition. Therefore the power consumption as measured at "on" is purely indicative and may not be the same value as in the "shipped" condition.

A. Information on Disposal for Users (private households)

Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

1. In the European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin!

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.
Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one.
*) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of www.swico.ch or www.sens.ch.

B. Information on Disposal for Business Users

1. In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your SHARP dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

For Spain: Please contact the established collection system or your local authority for take-back of your used products.

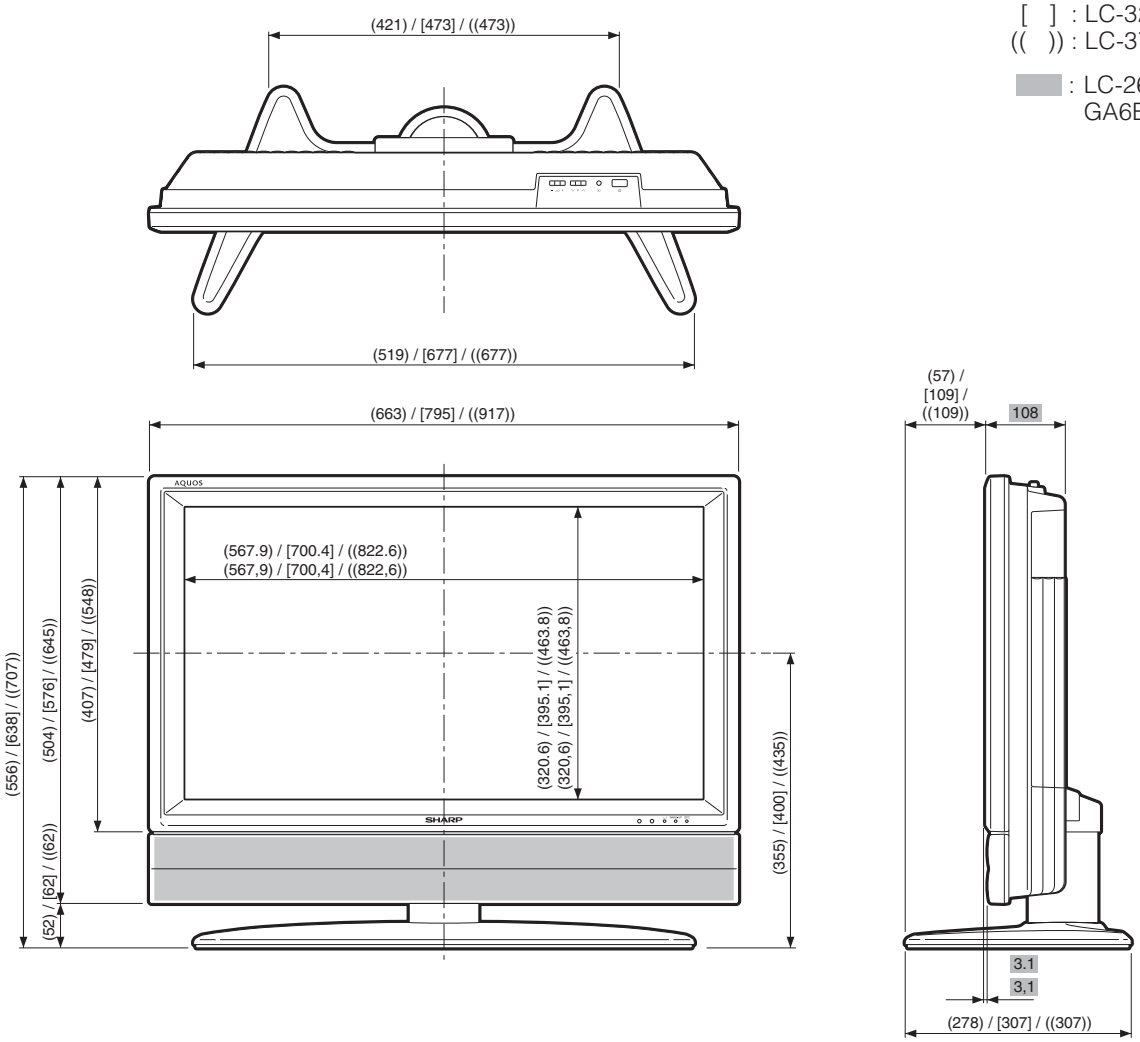
2. In other Countries outside the EU

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

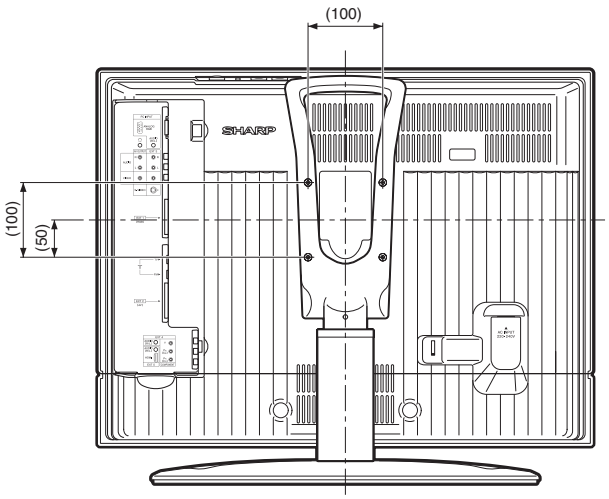
LC-26/32/37GA6E

( ) : LC-26GA6E
[ ] : LC-32GA6E
(( )) : LC-37GA6E

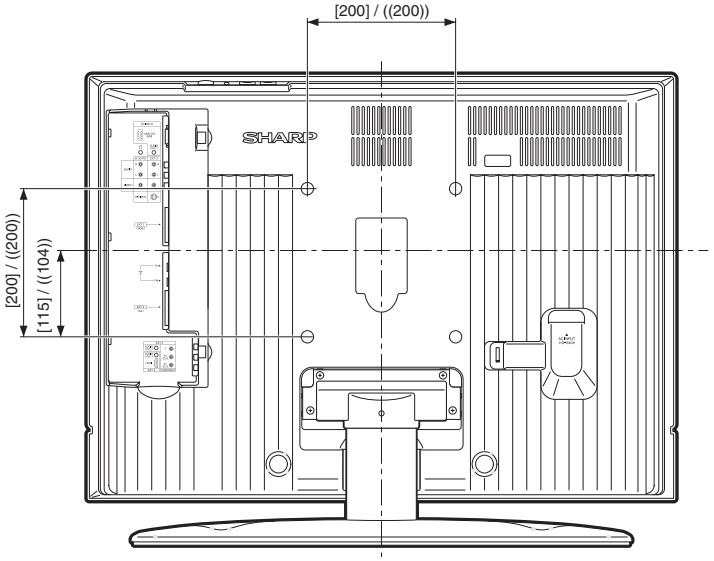
: LC-26/32/37 GA6E



LC-26GA6E



LC-32/37GA6E



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